CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

This Document contains information affecting the National Defense of the United States, within the meaning of Title 18, Sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law. The reproduction of this form is prohibited.

COUNTRY	USSR (Moscow Oblast) REPORT NO.		
SUBJECT		April 195	53
	of Paste Used on the Inside of Iconoscope Tubes NO. OF PAGES 4		25X1/
DATE OF	05V1C		
PLACE AC	CQUIRED 25X1A		
	23/1/4		
· ·	THE SOURCE EVALUATIONS IN THIS REPORT ARE DEFINITIVE. THE APPRAISAL OF CONTENT IS TENTATIVE. (FOR KEY SEE REVERSE)		25X1
			1
1.	Under the guidance of PETRENKO, a Soviet, a control measuring apparatu for measuring the thickness of the silver paste used on the inside of tubes.	Toomood	
1.	for measuring the thickness of the silver paste used on the inside of	Toomood	
	for measuring the thickness of the silver paste used on the inside of	structed	(5X1)
2.	for measuring the thickness of the silver paste used on the inside of tubes. Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (Se	structed e page thre	(5X1)
2.	for measuring the thickness of the silver paste used on the inside of tubes. Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (Se	structed e page thre	(5X1)
2.	Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (See The equipment consisted of:	structed e page thre	5X1X
2.	Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (Se The equipment consisted of: a. A galvanometer which was mounted horizontally on the board and co photocell located on the side of the tube.	structed e page thre	5X1X
2.	Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (Se The equipment consisted of: a. A galvanometer which was mounted horizontally on the board and co photocell located on the side of the tube.	structed e page thre	5X1X
2.	Since this control measuring equipment was to be portable, it was con throughout of aluminum, this being the lightest metal available. (Se The equipment consisted of: a. A galvanometer which was mounted horizontally on the board and co photocell located on the side of the tube.	structed e page thrunder	5X1X

-2-

the device had Russian markings; I don't know where it was manufactured.

- c. Directly opposite the photocell was located a 40-watt lamp similar to an auto bulb, operating on 110 volts DC. It was a clear round bulb with a metal reflector located inside. The physical size of the lamp was approximately 30 mm in diameter. I saw this item in a Soviet catalogue which illustrated other bulbs such as kino lamps, auto lamps, and ordinary light bulbs.
- 5. The iconoscope tube was placed on the four asbestos-wound iron supports. Then the hood or cover was put on this board, making sure that the red velvet cloth, located at the end where the neck of the tube protruded, completely eliminated any light from entering while the test was being conducted. The tube could not be moved when once the hood was placed over it.
- 6. There were two oval-shaped slots, one on each side, approximately 40 mm wide and 20 mm high. The photocell and bulb could be moved horizontally but not vertically; the width of the slots permitted the width of the silver painted strip to be measured.
- 7. The 40-watt light bulb was then energized; and, if the light showed through to the other side where the photocell was located, the galvanometer would so indicate. If the coating was too thin, the tube was discarded and destroyed. I don't know where the discarded or approved tubes were taken.

8.		

- 9. Two such devices were made so that the tube could be measured first with the photocell on one side, and then, by placing the tube in the other box, the reverse could be measured.
- 10. The coating (or paste) inside the tube was called "silver paste" by the Soviets (also by the Germans in Germany). I don't know the composition but I do know it derived its name from its color.
- 11. I don't know how many Aubes were tested per day.

 25X1X

12. I overheard more wineasuring devices were made but ligdon to know where they were used.

SECRET



